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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Maertens et al

Atty. Ref.: 2551-105

Serial No. 08/836,075

Group: 1631

Filed: April 21, 1997

Examiner: Zeman

For: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES AND THEIR USE AS  
PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS

\* \* \* \* \*

**September 2, 2004**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REQUEST**

The Examiner is requested to return a completely initialed copy of page 1 of PTO-1449 Forms which was filed May 4, 2001, and a partially initialed copy of which was received with the Office Action of October 6, 2003. Specifically, the Examiner has initialed all the references listed under U.S. Patent Documents and Foreign Patent Documents except for references listed under Other Documents and executed the entirety of page 1 of the PTO-1449 Forms. A copy of the partially initialed PTO-1449 Form is attached for the Examiner's convenience.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

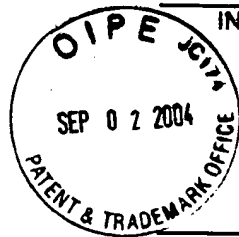
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INFORMATION DISCLOSURE  
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ATTY. DOCKET NO

SERIAL NO.

2752-31

08/836.075

APPLICANT

Maertens et al

FILING DATE

GROUP

April 21, 1997

1643

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MKC	5,372,928	12/1994	Miyamura et al			
MKC	5,514,539	5/1996	Bukh et al			

## FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
0.532.162	3/1993	EP			
WO 96/01442	1/1996	PCT			
WO 93/10239	5/1993	PCT			
WO 93/06126	4/1993	PCT			
419182 A1	3/1991	EP			
WO 92/19743	11/1992	PCT			

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	Bukh, J. et al, "At least 12 genotypes of hepatitis C virus predicted by sequence analysis of the putative E1 gene of isolates collected worldwide". Proceedings of the National Academy of Sciences of USA, Vol. 90, pages 8234-8238.
	Bukh, J. et al, "Sequence analysis of the core gene of the 14 hepatitis C virus genotypes", Proceedings of the National Academy of Sciences of USA, Vol. 91, pages 8239-8424.
	Enomoto, N., et al "There are two major types of hepatitis C virus in Japan". Biochem. Biophys. Res. Commun., Vol. 170, No. 3, 1990, pages 1021-1025. XPO02017145
	Driesel, G. et al, "Hepatitis C virus (HCV) genotype distribution in german isolates: studies on the sequence variability in the E2 and NS5 region". Archives of Virology, Vol. 139, No. 3/04, pages 379-388.
	Tokita, H. et al, "Hepatitis C virus variants from vietnam are classifiable into the seventh, eighth and ninth major genetic groups". Proceedings of the National Academy of Sciences of USA, Vol. 91, No. 23, pages 11022-11026.
	Stuyver et al, "Hepatitis C virus genotyping by means of 5'-UTR/core line probe assays and molecular analysis of untypeable samples", Virus Research, Vol. 30, No. 2-3, pages 137-157.
	Simmonds, P. et al, "Mapping of serotype-specific immunodominant epitopes in the NS4 region of hepatitis C virus", J. Clin. Micro., Vol. 31, No. 6, 1993, pages 1493-1503.
	Stuyver, L. et al, "Analysis of the putative E1 envelope and NS4a epitope regions of HCV type 3", Biochem. Biophys. Res. Commun., Vol. 192, No. 2, 1993, pages 635-641.
	Chayama, K. et al, "Genotypic subtyping of hepatitis C virus", J. Gastroenterol. Hepatol., Vol. 8, 1993, pages 150-156.
	Weiner et al, "Variable and hypervariable regions are found in the regions of HCV corresponding to the flavivirus envelope and NS1 proteins". Virology, Vol. 180, 1991, pages 842-848.
	Bukh et al, PNAS 89 4942-4946, June 1992
	Wallace et al, "Methods in Enzymology", 152:432 (1987).
	Cha, T.A. et al, "At least five related but distinct genotypes of hepatitis C virus exist", Proc. Natl. Acad. Sci. USA, Vol. 89, 1992, pages 7144-7148.

Examiner

Date Considered

10/1/03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-820 (Also PTO-1)